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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/431,154	11/01/1999	TAKEHIRO KATA	104639	8340	
25944 75	590 07/02/2002				
OLIFF & BEF	RRIDGE, PLC		EXAMINER		
P.O. BOX 19928 ALEXANDRIA, VA 22320			MACKEY,	MACKEY, JAMES P	
		*	ART UNIT	PAPER NUMBER	
			1722	16	
			DATE MAILED: 07/02/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. **09/431,154**

Applicant(s)

Art Unit

KATA ET AL.

Examiner

James Mackey

1722



The MAILING DATE of this communication appears or	the cover sheet with the correspondence address			
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET T THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no				
mailing date of this communication. If the period for repty specified above is less than thirty (30) days, a repty within the self-life NO period for repty is specified above, the maximum statutory period will apply and Failure to repty within the set or extended period for repty will, by statute, cause the Amy repty received by the Office later than three months after the mailing date of this earned patent term adjustment. See 37 CFR 1.704(b).	will expire SIX (6) MONTHS from the mailing date of this communication. application to become ABANDONED (35 U.S.C. § 133).			
Status				
1) X Responsive to communication(s) filed on Jun 25, 20	02			
2a) ☐ This action is FINAL . 2b) ☒ This action	n is non-final.			
3) Since this application is in condition for allowance exclosed in accordance with the practice under Ex parts	cept for formal matters, prosecution as to the merits is e Quayle, 1935 C.D. 11; 453 O.G. 213.			
Disposition of Claims				
4) X Claim(s) 1, 2, and 4-6	is/are pending in the application.			
4a) Of the above, claim(s)	is/are withdrawn from consideration.			
5)	is/are allowed.			
6) 💢 Claim(s) <u>1, 2, and 4-6</u>	is/are rejected.			
7)	is/are objected to.			
8) Claims	are subject to restriction and/or election requirement.			
Application Papers				
9) \square The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are a) \square accepted or b) \square objected to by the Examiner.			
Applicant may not request that any objection to the dra	wing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.				
12) \square The oath or declaration is objected to by the Examine	er.			
Priority under 35 U.S.C. §§ 119 and 120				
13) 💢 Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) \bigcirc All b) \square Some* c) \square None of:				
1. X Certified copies of the priority documents have	been received.			
2. \square Certified copies of the priority documents have	been received in Application No			
3. Copies of the certified copies of the priority doc application from the International Bureau *See the attached detailed Office action for a list of the				
14) Acknowledgement is made of a claim for domestic p	·			
a) The translation of the foreign language provisional	·			
15) Acknowledgement is made of a claim for domestic p				
Attachment(s)				
	-) Interview Summary (PTO-413) Paper No(s).			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Notice of Informal Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:				

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1. A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 24, 2002, has been entered.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1, 2 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Great Britain Patent 1,248,891 (Figures 1-5) in view of Miyata et al. (U.S. Patent 5,208,044).

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British '891 discloses a vulcanizing mold substantially as claimed, comprising upper and lower sidewall mold members integrally attached to upper and lower base plates, upper 42 and lower 10 tread mold members indirectly attached to the upper and lower base plates and being constituted of upper segments and lower segments, respectively, the upper and lower segments being displaceable only radially relative to the upper and lower sidewall mold members, a single cam ring 43 in direct engagement with the upper and lower tread mold members (see especially Figs. 4 and 5, showing that the cam ring engages with a tapered portion of the lower segments 11), the cam ring being always in engagement with the upper segments, the cam ring being adapted to be displaced independently of approaching displacements of the sidewall mold members toward each other to thereby simultaneously displace the upper and lower segments radially inwards while the upper and lower segments are in abutment with each other and while the cam ring remains in direct engagement with the upper tread mold member and in indirect engagement (via cooperating projection 81 and recess 34) with the lower tread mold member, and abutment means 79, 80 on the upper base plate and the cam ring for defining the upper limit position of the cam ring relative to the upper base plate. British '891 also discloses a method of vulcanizing a tire substantially as claimed using such a mold, the method comprising displacing the upper and lower sidewall mold members toward each other so that the upper and lower segments are brought into abutment with each other, and operating the cam ring while the cam ring remains in direct engagement with the upper tread mold member and in indirect engagement (via cooperating projection 81 and recess 34) with the lower tread mold member to simultaneously

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displace all of the segments radially inwards relative to the upper and lower sidewall members, with the upper segments in abutment with the lower segments. British '891 does not disclose that the cam ring simultaneously displaces all of the segments radially inwardly while the cam ring remains in direct engagement with both upper and lower tread mold members. Miyata et al. disclose a tire vulcanizing mold and method, wherein a single cam ring 4 (formed of two connected parts 4a and 4b) simultaneously displaces all of the tread mold segments radially inwardly while the cam ring remains in direct engagement with both the upper tread mold members and the lower tread mold members. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify British '891 by providing the cam ring in direct engagement with both the upper and lower tread mold members to simultaneously displace the segments radially inwardly, as disclosed in Miyata et al., since such an arrangement would enable a more reliable radially inward movement of the lower tread mold member by applying a force from the outward side of the lower tread mold member rather than from the upper side thereof, and since such an arrangement is equivalent to the direct engagement of the cam ring with the upper tread mold member and the indirect engagement of the cam ring (via cooperating elements 81 and 34) with the lower tread mold member, as disclosed in British '891.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Mackey whose telephone number is (703) 308-1195. The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Nam Nguyen, can be reached at (703) 308-3322. The fax phone number for this Group is (703) 305-7718.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651. Any inquiry relating to the contents or papers filed in this application, other than issues of substance requiring the attention of the Examiner, should be directed to the Customer Service Office, Technology Center 1700, whose telephone number is (703) 306-5665.

MACKEY/jpm June 29, 2002 JAMES MACKEY
PRIMARY EXAMINER
ART UNIT 1722

James Mark

6/29/02